Meeting Lighting Needs and Still Saving Energy

Chris Lowery

Accurate Energy Services

At:

National Defense Industrial Association's
30th Environmental and Energy Symposium
San Diego, California
April 5 – 8, 2004

The Application

- Naval Aviation Depot (NADEP)
- Building #472
- 305,000 Square Feet

Use

- Precision Manufacturing and Repair of Aircraft Parts.
- 24 hour Utilization

Existing Conditions

- Low light levels
- Heavy Shadows
- High level of employee dissatisfaction

Existing Lighting System

- High Pressure Sodium
- Metal Halide
- Pulse Start Metal Halide

The Challenge

- Light the work area to 70 FC’s with a high quality light source suitable for performing precision operations.
- Save energy, if possible.

The Approach

- Demonstration area – Select
- Start From Scratch – Redesign lighting system
- Proper light in the proper places

Demonstration Installation

- Weekend installation
- Photography of demonstration area

Note difference in light and color in T5 demonstration at

Bldg 472

Reaction

- “Oh My God”
- “When do I get it?”

Project Installation

- 60 Day construction period
- High lift equipment
- By area – A to Z

Benefits

Replacement of HIDs by T5s, with zone controls, improves quality of light, reduces kw and kwh, gives operators control of their lights, and offers fast Paybacks with low risk.

For more information

Chris Lowery
Accurate Energy Services
612 S. Myrtle Ave., Suite 100
Monrovia, Ca 91016
888.966.1915
clowery@foplus.com